

Trying 3106016892...Open

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TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 Dec 17 The CA Lexicon available in the CAPLUS and CA files  
NEWS 3 Feb 06 Engineering Information Encompass files have new names  
NEWS 4 Feb 16 TOXLINE no longer being updated  
NEWS 5 Apr 23 Search Derwent WPINDEX by chemical structure  
NEWS 6 Apr 23 PRE-1967 REFERENCES NOW SEARCHABLE IN CAPLUS AND CA  
NEWS 7 May 07 DGENE Reload  
NEWS 8 Jun 20 Published patent applications (A1) are now in USPATFULL  
NEWS 9 JUL 13 New SDI alert frequency now available in Derwent's  
DWPI and DPCI  
NEWS 10 Aug 23 In-process records and more frequent updates now in  
MEDLINE  
NEWS 11 Aug 23 PAGE IMAGES FOR 1947-1966 RECORDS IN CAPLUS AND CA  
NEWS 12 Aug 23 Adis Newsletters (ADISNEWS) now available on STN  
NEWS 13 Sep 17 IMSworld Pharmaceutical Company Directory name change  
to PHARMASEARCH  
NEWS 14 Oct 09 Korean abstracts now included in Derwent World Patents  
Index  
NEWS 15 Oct 09 Number of Derwent World Patents Index updates increased  
NEWS 16 Oct 15 Calculated properties now in the REGISTRY/ZREGISTRY File  
NEWS 17 Oct 22 Over 1 million reactions added to CASREACT  
NEWS 18 Oct 22 DGENE GETSIM has been improved  
NEWS 19 Oct 29 AAASD no longer available  
NEWS 20 Nov 19 New Search Capabilities USPATFULL and USPAT2  
NEWS 21 Nov 19 TOXCENTER(SM) - new toxicology file now available on STN  
NEWS 22 Nov 29 COPPERLIT now available on STN  
NEWS 23 Nov 29 DWPI revisions to NTIS and US Provisional Numbers  
NEWS 24 Nov 30 Files VETU and VETB to have open access  
NEWS 25 Dec 10 WPINDEX/WPIDS/WPIX New and Revised Manual Codes for 2002  
NEWS 26 Dec 10 DGENE BLAST Homology Search  
NEWS 27 Dec 17 WELDASEARCH now available on STN  
NEWS 28 Dec 17 STANDARDS now available on STN  
NEWS 29 Dec 17 New fields for DPCI  
NEWS 30 Dec 19 CAS Roles modified  
NEWS 31 Dec 19 1907-1946 data and page images added to CA and Caplus  
  
NEWS EXPRESS August 15 CURRENT WINDOWS VERSION IS V6.0c,  
CURRENT MACINTOSH VERSION IS V6.0 (ENG) AND V6.0J (JP),  
AND CURRENT DISCOVER FILE IS DATED 07 AUGUST 2001  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
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NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 14:58:08 ON 04 JAN 2002

=> file registry

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.15

0.15

FILE 'REGISTRY' ENTERED AT 14:58:20 ON 04 JAN 2002

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STRUCTURE FILE UPDATES: 2 JAN 2002 HIGHEST RN 380300-95-8

DICTIONARY FILE UPDATES: 2 JAN 2002 HIGHEST RN 380300-95-8

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e behenyltrimethyl

|     |        |                               |
|-----|--------|-------------------------------|
| E1  | 1      | BEHENYLTRIETHYLPHOSPHON/BI    |
| E2  | 1      | BEHENYLTRIETHYLPHOSPHONIUM/BI |
| E3  | 10 --> | BEHENYLTRIMETHYL/BI           |
| E4  | 3      | BEHENYLTRIMETHYLAMMON/BI      |
| E5  | 3      | BEHENYLTRIMETHYLAMMONIUM/BI   |
| E6  | 1      | BEHENYLTRIMETHYLDI/BI         |
| E7  | 1      | BEHENYLTRIMETHYLDIAMINE/BI    |
| E8  | 6      | BEHENYLTRIMETHYLENE/BI        |
| E9  | 6      | BEHENYLTRIMETHYLENEDI/BI      |
| E10 | 6      | BEHENYLTRIMETHYLENEDIAMINE/BI |
| E11 | 1      | BEHEO/BI                      |
| E12 | 1      | BEHF/BI                       |

=> d e3

NO L# DEFINED

=> e behenyltrimethylammonium

|    |       |                             |
|----|-------|-----------------------------|
| E1 | 10    | BEHENYLTRIMETHYL/BI         |
| E2 | 3     | BEHENYLTRIMETHYLAMMON/BI    |
| E3 | 3 --> | BEHENYLTRIMETHYLAMMONIUM/BI |
| E4 | 1     | BEHENYLTRIMETHYLDI/BI       |
| E5 | 1     | BEHENYLTRIMETHYLDIAMINE/BI  |
| E6 | 6     | BEHENYLTRIMETHYLENE/BI      |

E7 6 BEHENYLTRIMETHYLENEDI/BI  
 E8 6 BEHENYLTRIMETHYLENEDIAMINE/BI  
 E9 1 BEHEO/BI  
 E10 1 BEHF/BI  
 E11 1 BEHFO3/BI  
 E12 1 BEHFO7TI2/BI

=> s e3

L1 3 BEHENYLTRIMETHYLAMMONIUM/BI

=> d L1 1-3

L1 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2002 ACS  
 RN 81646-13-1 REGISTRY  
 CN 1-Docosanaminium, N,N,N-trimethyl-, methyl sulfate (9CI) (CA INDEX NAME)  
 OTHER NAMES:  
 CN Behenyltrimethylammonium methosulfate  
 CN Behenyltrimethylammonium methyl sulfate  
 CN Docosyltrimethylammonium methyl sulfate  
 CN Incroquat BTQ 25C  
 MF C25 H54 N . C H3 O4 S  
 LC STN Files: BEILSTEIN\*, CA, CAPLUS, CHEMLIST, IPA, TOXCENTER, TOXLIT,  
 USPATFULL  
 (\*File contains numerically searchable property data)  
 Other Sources: EINECS\*\*  
 (\*\*Enter CHEMLIST File for up-to-date regulatory information)  
 CM 1  
 CRN 45294-07-3  
 CMF C25 H54 N

Me<sub>3</sub><sup>+</sup>N-(CH<sub>2</sub>)<sub>21</sub>-Me

CM 2  
 CRN 21228-90-0  
 CMF C H3 O4 S

Me-O-SO<sub>3</sub><sup>-</sup>

24 REFERENCES IN FILE CA (1967 TO DATE)  
 24 REFERENCES IN FILE CAPLUS (1967 TO DATE)

L1 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2002 ACS  
 RN 21396-56-5 REGISTRY  
 CN 1-Docosanaminium, N,N,N-trimethyl-, bromide (9CI) (CA INDEX NAME)  
 OTHER CA INDEX NAMES:  
 CN Ammonium, docosyltrimethyl-, bromide (8CI)  
 CN Docosyltrimethylammonium bromide (7CI)  
 OTHER NAMES:  
 CN Behenyltrimethylammonium bromide  
 CN N,N,N-Trimethyldocosan-1-ammonium bromide  
 MF C25 H54 N . Br  
 LC STN Files: BEILSTEIN\*, CA, CAOLD, CAPLUS, CHEMLIST, TOXCENTER, TOXLIT,

USPATFULL  
(\*File contains numerically searchable property data)  
CRN (45294-07-3)

$\text{Me}_3\text{N}^-(\text{CH}_2)_{21}-\text{Me}$

●  $\text{Br}^-$

27 REFERENCES IN FILE CA (1967 TO DATE)  
27 REFERENCES IN FILE CAPLUS (1967 TO DATE)  
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L1 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2002 ACS  
RN 17301-53-0 REGISTRY  
CN 1-Docosanaminium, N,N,N-trimethyl-, chloride (9CI) (CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN Ammonium, docosyltrimethyl-, chloride (8CI)  
OTHER NAMES:  
CN Arquad 22-80  
CN Behentrimonium chloride  
CN **Behenyltrimethylammonium chloride**  
CN Cation VB  
CN Docosyltrimethylammonium chloride  
CN Econol TM 22  
CN Genamin DDMP  
CN Genamin KDM  
CN Incroquat TMC 80  
CN Incroquat TMC 95  
CN Incroquat TMC/P  
CN Kemamine Q 2983C  
CN N-Docosyl-N,N,N-trimethylammonium chloride  
CN Neoscoap CN 30SF  
CN Nikkol CA 2580  
CN Nissan Cation VB  
CN Trimethylbehenylammonium chloride  
CN Varisoft BT 85  
DR 57762-94-4  
MF C25 H54 N . Cl  
CI COM  
LC STN Files: CA, CAPLUS, CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, PIRA,  
TOXCENTER, TOXLIT, USPATFULL  
Other Sources: EINECS\*\*  
(\*\*Enter CHEMLIST File for up-to-date regulatory information)  
CRN (45294-07-3)

$\text{Me}_3\text{N}^-(\text{CH}_2)_{21}-\text{Me}$

$\text{Cl}^-$

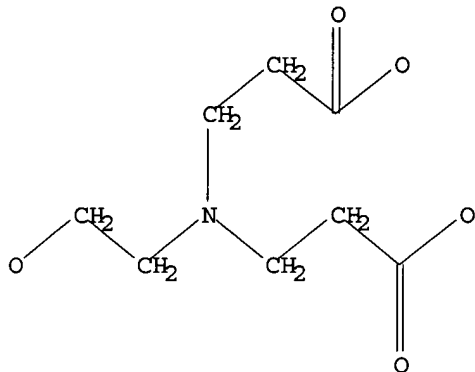
328 REFERENCES IN FILE CA (1967 TO DATE)

3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA  
330 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=>  
Uploading 09759165a.str

L2 STRUCTURE UPLOADED

=> d L2  
L2 HAS NO ANSWERS  
L2 STR



Structure attributes must be viewed using STN Express query preparation.

=> s L2 sss sam  
SAMPLE SEARCH INITIATED 15:04:03 FILE 'REGISTRY'  
SAMPLE SCREEN SEARCH COMPLETED - 686 TO ITERATE

100.0% PROCESSED 686 ITERATIONS 3 ANSWERS  
SEARCH TIME: 00.00.01

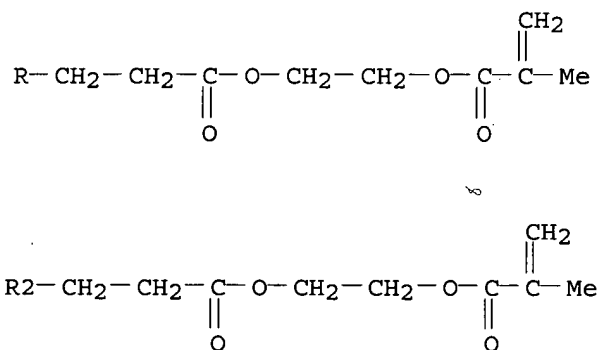
FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*  
BATCH \*\*COMPLETE\*\*  
PROJECTED ITERATIONS: 12149 TO 15291  
PROJECTED ANSWERS: 3 TO 163

L3 3 SEA SSS SAM L2

=> d L3

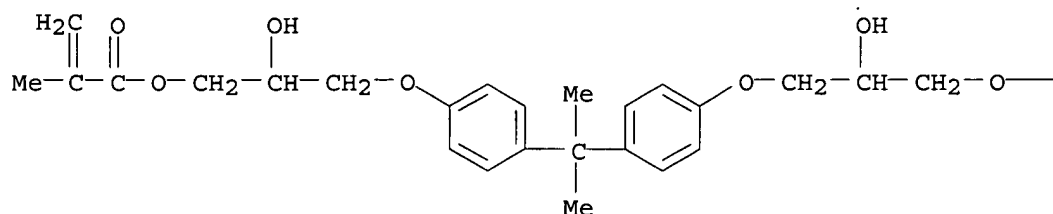
L3 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2002 ACS  
RN 226949-41-3 REGISTRY  
CN 7,10-Dioxo-4,13-diazahexadecanedioic acid,  
4,13-bis[3-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-3-oxopropyl]-, bis[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl] ester, polymer with (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] bis(2-methyl-2-propenoate) (9CI)  
(CA INDEX NAME)  
OTHER CA INDEX NAMES:  
CN 2-Propenoic acid, 2-methyl-, (1-methylethylidene)bis[4,1-phenyleneoxy(2-hydroxy-3,1-propanediyl)] ester, polymer with bis[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethyl]  
4,13-bis[3-[2-[(2-methyl-1-oxo-2-propenyl)oxy]ethoxy]-

CRN 226949-35-5  
CMF C42 H64 N2 O18

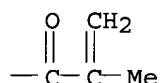
$$\begin{array}{c} \text{H}_2\text{C} \quad \text{O} \quad \quad \quad \text{O} \quad \quad \quad \text{CH}_2\text{--CH}_2\text{--O--CH}_2\text{--CH}_2\text{--O--CH}_2\text{--} \\ \parallel \quad \parallel \quad \quad \quad \parallel \\ \text{Me--C--C--O--CH}_2\text{--CH}_2\text{--O--C--CH}_2\text{--CH}_2\text{--N--R}_2 \end{array}$$

$$\begin{array}{c} \text{O} \qquad \qquad \text{O} \quad \text{CH}_2 \\ \parallel \qquad \qquad \parallel \quad \parallel \\ \text{CH}_2\text{---CH}_2\text{---C---O---CH}_2\text{---CH}_2\text{---O---C---C---Me} \\ | \\ \text{---CH}_2\text{---N---R} \end{array}$$

CRN 1565-94-2  
CMF C29 H36 O8

PAGE 1-A



PAGE 1-B



1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s L2 sss full  
FULL SEARCH INITIATED 15:10:39 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 13448 TO ITERATE

100.0% PROCESSED 13448 ITERATIONS  
SEARCH TIME: 00.00.01

56 ANSWERS

L4 56 SEA SSS FUL L2

=> d his

(FILE 'HOME' ENTERED AT 14:58:08 ON 04 JAN 2002)

FILE 'REGISTRY' ENTERED AT 14:58:20 ON 04 JAN 2002

E BEHENYLTRIMETHYL  
E BEHENYLTRIMETHYLAMMONIUM

L1 3 S E3  
L2 STRUCTURE UPLOADED  
L3 3 S L2 SSS SAM  
L4 56 S L2 SSS FULL

=> file caplus

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 156.94     | 157.09  |

FULL ESTIMATED COST

FILE 'CAPLUS' ENTERED AT 15:11:03 ON 04 JAN 2002

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FILE COVERS 1907 - 4 Jan 2002 VOL 136 ISS 1  
FILE LAST UPDATED: 2 Jan 2002 (20020102/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

Caplus now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

CAS roles have been modified effective December 16, 2001. Please check your SDI profiles to see if they need to be revised. For information on CAS roles, enter HELP ROLES at an arrow prompt or use the CAS Roles thesaurus (/RL field) in this file.

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```
=> s L1
L5          374 L1

=> s L4
L6          37 L4

=> s L5 and L6
L7          0 L5 AND L6

=> s modified(w)starch
      420870 MODIFIED
      5 MODIFIEDS
      420873 MODIFIED
      (MODIFIED OR MODIFIEDS)
      125759 STARCH
      7342 STARCHES
      126916 STARCH
      (STARCH OR STARCHES)
L8          2377 MODIFIED(W)STARCH

=> s amphoteric(w)starch
      12474 AMPHOTERIC
      94 AMPHOTERICS
      12502 AMPHOTERIC
      (AMPHOTERIC OR AMPHOTERICS)
      125759 STARCH
      7342 STARCHES
      126916 STARCH
      (STARCH OR STARCHES)
L9          76 AMPHOTERIC(W)STARCH
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=> s L8 or L9  
L10 2445 L8 OR L9

=> s L5 and L10  
L11 1 L5 AND L10

=> d L11 ti

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
TI Cosmetic compositions containing an **amphoteric starch**  
and a cationic conditioning agent

=> d L11

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS  
AN 2001:563771 CAPLUS  
DN 135:157364  
TI Cosmetic compositions containing an **amphoteric starch**  
and a cationic conditioning agent  
IN Douin, Veronique; Chesneau, Laurent; Descoster, Sandrine  
PA L'Oreal S.A., Fr.  
SO Eur. Pat. Appl., 26 pp.  
CODEN: EPXXDW  
DT Patent  
LA French  
FAN.CNT 1

*Priority  
document*

|        | PATENT NO.   | KIND | DATE     | APPLICATION NO. | DATE     |
|--------|--|------|----------|-----------------|----------|
| PI     | EP 1120103   | A1   | 20010801 | EP 2000-403529  | 20001214 |
|        | R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,<br>IE, SI, LT, LV, FI, RO   |      |          |                 |          |
|        | FR 2803745   | A1   | 20010720 | FR 2000-409     | 20000113 |
|        | BR 2001000259  | A    | 20010821 | BR 2001-259     | 20010108 |
|        | CN 1305801   | A    | 20010801 | CN 2001-103011  | 20010112 |
|        | JP 2001226217  | A2   | 20010821 | JP 2001-7088    | 20010115 |
|        | US 2001031270  | A1   | 20011018 | US 2001-759165  | 20010116 |
| PRAI   | FR 2000-409  | A    | 20000113 |                 |          |
| OS     | MARPAT 135:157364  |      |          |                 |          |
| RE.CNT | 4  |      |          |                 |          |
| RE     | (1) L'Oreal; EP 0797979 A 1997 CAPLUS<br>(2) National Starch; <a href="http://www.nationalstarch.com/solan.htm/">http://www.nationalstarch.com/solan.htm/</a> 2000<br>(3) National Starch And Chem Corp; EP 0689829 A 1995 CAPLUS<br>(4) National Starch And Chem Corp; EP 0948960 A 1999 CAPLUS |      |          |                 |          |

=> s starch  
125759 STARCH  
7342 STARCHES  
L12 126916 STARCH  
(STARCH OR STARCHES)

=> s L5 and L12 not L11  
L13 3 L5 AND L12 NOT L11

=> d L13 1-3 ibib,abs

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 2001:297468 CAPLUS

DOCUMENT NUMBER: 134:315868  
TITLE: Cosmetic aqueous emulsion composition containing a vinyl dimethicone/dimethicone copolymer and a thickener  
INVENTOR(S): Decoster, Sandrine; Douin, Veronique; Bailly, Virginie  
PATENT ASSIGNEE(S): L'Oreal, Fr.  
SOURCE: Eur. Pat. Appl., 16 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: French  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

*not prior art*

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| EP 1093807  | A1   | 20010425 | EP 2000-402738  | 20001005 |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MG, PT, IE, SI, LT, LV, FI, RO |      |          |                 |          |
| FR 2799972  | A1   | 20010427 | FR 1999-13099   | 19991020 |
| FR 2799972  | B1   | 20011207 |                 |          |
| BR 2000005080   | A    | 20010612 | BR 2000-5080    | 20001019 |
| CN 1312067  | A    | 20010912 | CN 2000-135302  | 20001019 |
| JP 2001151625   | A2   | 20010605 | JP 2000-322030  | 20001020 |

*see US 09/692,716*  
*Gina Hu*  
*no marks at modified sketch*

PRIORITY APPLN. INFO.: FR 1999-13099 A 19991020  
AB Cosmetic emulsions contg. a vinyl dimethicone/dimethicone copolymer having a viscosity of 1x10<sup>6</sup>-100x10<sup>6</sup> cP and a cellulosic thickener are disclosed. The compns. are used for washing and/or conditioning of hair or skin. An after-shampoo compn. contained a mixt. of myristyl, cetyl and stearyl of myristate, palmitate, and stearate 0.5, a mixt. of cetyl alc./stearyl alc. (50:50) 3, lauryldimethicone copolyol 0.23, xanthan gum 0.2 behenyltrimethyl ammonium chloride 1.1, DC-1997 1.36, perfume, preservatives, and water q.s. 100.

*contains Genamin KDP*

REFERENCE COUNT: 7  
REFERENCE(S): (1) Dow Corning; EP 0787758 A 1997 CAPLUS  
(2) Dow Corning Sa; EP 0874017 A 1998 CAPLUS  
(3) Oreal; FR 2739284 A 1997 CAPLUS  
(4) Oreal; FR 2742657 A 1997 CAPLUS  
(5) Oreal; FR 2748392 A 1997 CAPLUS  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1999:468551 CAPLUS  
DOCUMENT NUMBER: 131:120598  
TITLE: Two-part hair dye compositions containing polyether polyurethanes and conditioning agents  
INVENTOR(S): Casperson, Stephen; Murphy, Bryan; Khan, Zubaida; Pohl, Stanley  
PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA  
SOURCE: PCT Int. Appl., 29 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO. | KIND | DATE     | APPLICATION NO. | DATE     |
|------------|------|----------|-----------------|----------|
| WO 9936047 | A1   | 19990722 | WO 1998-US26122 | 19981209 |

W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

|            |    |          |                |          |
|------------|----|----------|----------------|----------|
| US 6156076 | A  | 20001205 | US 1998-8209   | 19980116 |
| AU 9916337 | A1 | 19990802 | AU 1999-16337  | 19981209 |
| BR 9814008 | A  | 20001010 | BR 1998-14008  | 19981209 |
| EP 1047375 | A1 | 20001102 | EP 1998-960833 | 19981209 |

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI

PRIORITY APPLN. INFO.:

US 1998-8209 A 19980116  
WO 1998-US26122 W 19981209

AB The present invention describes a two-part oxidative hair dye compn. which

comprises in one or both component parts at least one polyether polyurethane in combination with at least one cationic conditioning agent.

The two component parts of the compn. comprise a dye component compn., which includes primary intermediates and couplers, and a developing component compn., which includes an oxidizing agent, such as hydrogen peroxide. It has surprisingly been found by the present inventors that nonionic polyether polyurethane polymers and cationic conditioning agents contained in the oxidative hair dye compns. of the present invention impart and significantly enhance addnl. conditioning and rheol. benefits to the hair. Other components commonly used in oxidative hair dye products can be added to one or both component parts of the compns. of the

present invention. After mixing the two component compns., the resulting hair dye compn. mixt. is thick, conveniently applied, and provides superior rheol. and conditioning properties to the hair. A dye component compn. was prepd. contg., among other ingredients, behentrimonium chloride, cetyl alc., cocamide MEA, m-aminophenol, 1-naphthol, Aculyne 46, and ammonium hydroxide. A developer (oxidizer) component was prepd. contg., among other ingredients, C12-15 Pareth-3, Steareth 21, PEG-50 tallow amide, Oleth-5, oleyl alc., cetyl alc., Etidronic acid, Simethicone, and di-Na EDTA.

REFERENCE COUNT:

4

REFERENCE(S):

- (1) Carlos, D; WO 9724105 A 1997 CAPLUS
- (2) Carlos, D; WO 9724106 A 1997 CAPLUS
- (3) Carlos, D; WO 9724107 A 1997 CAPLUS
- (4) Carlos, D; WO 9827941 A 1998 CAPLUS

L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1997:506069 CAPLUS

DOCUMENT NUMBER: 127:126348

TITLE: Hair compositions containing combination of a polyampholyte polymer and a cationic polymer

INVENTOR(S): Cauwet-Martin, Daniele; Lion, Bertrand; Mondet, Jean  
PATENT ASSIGNEE(S): L'Oreal, Fr.; Cauwet-Martin, Daniele; Lion, Bertrand; Mondet, Jean

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

*Not correct type of starch*

| PATENT NO.  | KIND | DATE     | APPLICATION NO. | DATE     |
|---|------|----------|-----------------|----------|
| WO 9723193  | A1   | 19970703 | WO 1996-FR1831  | 19961119 |
| W: AL, AM, AU, AZ, BB, BG, BR, BY, CA, CN, CU, CZ, EE, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN |      |          |                 |          |
| RW: AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG  |      |          |                 |          |
| FR 2742657  | A1   | 19970627 | FR 1995-15290   | 19951221 |
| FR 2742657  | B1   | 19980130 |                 |          |
| AU 9676302  | A1   | 19970717 | AU 1996-76302   | 19961119 |
| EP 869766   | A1   | 19981014 | EP 1996-939151  | 19961119 |
| EP 869766   | B1   | 20011121 |                 |          |

R: DE, ES, FR, GB, IT

PRIORITY APPLN. INFO.:

FR 1995-15290 A 19951221  
WO 1996-FR1831 W 19961119

AB To a compn. for the treatment of keratinic materials, particularly human hair, contg. in a cosmetically and/or dermatol. acceptable aq. medium at least (1) a polyampholyte polymer comprised of at least one ethylenically unsatd. monomer and comprising in the chain or sideways of the chain equimolar or substantially equimolar quantities of neg. charges and pos. charges; said polymer is water insol. at a concn. higher than or equal to 1% by wt. at 20.degree.; (2) a cationic polymer of which the cationic charge d. is lower than or equal to 4 meq/g. They are used as capillary products to be rinsed for hair care, hair washing and or hair combing. They have a good hair dressing effect and good wet hair combing out properties. Sodium styrene sulfonate 49.8, an aq. soln. of 78.9% trimethylammonium Et methacrylate chloride 63.63, water 300, and potassium persulfate 2 g were stirred under N and heated at 72.degree. for 24 h, the polymer thus obtained was then sepd., washed and dried. A shampoo had sodium lauryl ether sulfate 24, 32% cocoylbetain soln. 8, above polymer 1, NaCl 2, 8% soln. of dimethyldiallylammonium chloride-acrylamide copolymer 1, preservatives, perfumes and water q.s. 100 g.

=> d L13 1-3 kwic

L13 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS

IT 79-10-7D, Acrylic acid, polymers with methacrylates 79-41-4D, MethAcrylic acid, polymers with acrylates 9000-30-0, Guar gum 9000-36-6, Karaya gum 9003-05-8, Polyacrylamide 9005-25-8, **Starch**, biological studies 9005-32-7, Alginic acid 9050-36-6, Maltodextrin 11138-66-2, Xanthan gum 17301-53-0, Behenyltrimethyl ammonium chloride 25322-68-3, Polyethylene glycol 26100-47-0, Acrylamide-ammonium acrylate copolymer 27119-07-9, Amps homopolymer 35429-19-7, Acrylamide-methacryloyloxyethyltrimethylammonium chloride copolymer 39464-87-4, Scleroglucan 59942-04-0, .alpha.,.omega.-Divinylpolydimethylsiloxane 67504-24-9 71010-52-1, Gellan 96949-21-2, Rhamsan gum 115254-29-0  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)

(cosmetic aq. emulsion compn. contg. vinyl dimethicone/dimethicone copolymer and thickener)

*Mod: Fred  
Stavel*

L13 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2002 ACS  
IT 9005-25-8, **Starch**, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(polyether-polyurethane modified with; two-part hair dye compns.

contg.

polyether polyurethanes and conditioning agents)  
IT 90-15-3, 1-Naphthol 95-70-5, p-Toluenediamine 106-50-3,  
1,4-Benzenediamine, biological studies 107-64-2,  
Distearyldimethylammonium chloride 108-45-2, 1,3-Benzenediamine,  
biological studies 108-46-3, Resorcinol, biological studies 112-03-8,  
Stearyltrimethylammonium chloride 123-30-8, p-Aminophenol 591-27-5  
608-25-3, 2-Methylresorcinol 1812-53-9, Dicetyldimethylammonium  
chloride  
2835-95-2, 4-Amino-2-hydroxytoluene 2835-96-3, 4-Amino-2-methylphenol  
2835-99-6, 4-Amino-3-Methylphenol 7469-77-4, 2-Methyl-1-naphthol  
7575-35-1, N,N-Bis(2-hydroxyethyl)-p-phenylenediamine 9002-92-0,

Laureth

2 14572-93-1, 2-(2,4-Diaminophenyl)ethanol 17301-53-0,  
Behentrimonium chloride 26006-22-4, Polyquaternium 5 26027-38-3  
26062-79-3, Polyquaternium 6 53694-17-0, Polyquaternium 22 83763-47-7  
93841-24-8 193487-42-2, Aculyl 44 233265-18-4, Aculyl 46  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(two-part hair dye compns. contg. polyether polyurethanes and  
conditioning agents)

*modified  
Starch*

L13 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

IT 107-43-7D, Betaine, cocoacyl derivs. 112-02-7, Barquat ct29  
9000-30-0,

Guar gum 9004-82-4 11138-66-2, Xanthan gum 17301-53-0,  
Behenyl trimethyl ammonium chloride 26590-05-6, Dimethyldiallylammonium  
chloride-acrylamide copolymer 74444-08-9  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)

(hair compns. contg. combination of polyampholyte polymer and cationic  
polymer)

IT 9004-34-6DP, Cellulose, derivs. 9005-25-8DP, **Starch**, derivs.  
31324-84-2P 38812-35-0P 41488-70-4P 65205-78-9P 65205-79-0P  
67553-83-7P 89559-71-7P 89559-72-8P 98715-54-9P 117829-14-8P  
130764-80-6P 192820-61-4P 192820-63-6P 192820-66-9P 192820-73-8P  
RL: BUU (Biological use, unclassified); SPN (Synthetic preparation); BIOL  
(Biological study); PREP (Preparation); USES (Uses)  
(hair compns. contg. combination of polyampholyte polymer and cationic  
polymer)

=> file kosmet

COST IN U.S. DOLLARS

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 19.78      | 176.87  |

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| -1.86      | -1.86   |

CA SUBSCRIBER PRICE

FILE 'KOSMET' ENTERED AT 15:15:39 ON 04 JAN 2002

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Chemists

FILE LAST UPDATED: 10 DEC 2001 <20011210/UP>  
FILE COVERS 1968 TO DATE.

=> s behenyltrimethyl

0 BEHENYLTRIMETHYL  
L14 0 BEHENYLTRIMETHYL

=> s L1

0 BEHENYLTRIMETHYLAMMONIUM/BI  
L15 0 BEHENYLTRIMETHYLAMMONIUM/BI

=> file uspatfull

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST  | 1.58             | 178.45        |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| CA SUBSCRIBER PRICE                        | 0.00             | -1.86         |

FILE 'USPATFULL' ENTERED AT 15:17:06 ON 04 JAN 2002  
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

FILE COVERS 1971 TO PATENT PUBLICATION DATE: 3 Jan 2002 (20020103/PD)  
FILE LAST UPDATED: 3 Jan 2002 (20020103/ED)  
HIGHEST GRANTED PATENT NUMBER: US6330719  
HIGHEST APPLICATION PUBLICATION NUMBER: US2002002729  
CA INDEXING IS CURRENT THROUGH 3 Jan 2002 (20020103/UPCA)  
ISSUE CLASS FIELDS (/INCL) CURRENT THROUGH: 3 Jan 2002 (20020103/PD)  
REVISED CLASS FIELDS (/NCL) LAST RELOADED: Oct 2001  
USPTO MANUAL OF CLASSIFICATIONS THESAURUS ISSUE DATE: Oct 2001

>>> Page images are available for patents from 1/1/1998. Patents <<<  
>>> and applications are typically loaded on the day of publication.<<<  
>>> Page images are available for display by the following day. <<<  
>>> Image data for the /FA field are available the following update.<<<

>>> Complete CA file indexing for chemical patents (or equivalents) <<<  
>>> is included in file records. A thesaurus is available for the <<<  
>>> USPTO Manual of Classifications in the /NCL, /INCL, and /RPCL <<<  
>>> fields. This thesaurus includes catchword terms from the <<<  
>>> USPTO/MOC subject headings and subheadings. Thesauri are also <<<  
>>> available for the WIPO International Patent Classification <<<  
>>> (IPC) Manuals, editions 1-6, in the /IC1, /IC2, /IC3, /IC4, <<<  
>>> /IC5, and /IC (/IC6) fields, respectively. The thesauri in <<<  
>>> the /IC5 and /IC fields include the corresponding catchword <<<  
>>> terms from the IPC subject headings and subheadings. <<<

This file contains CAS Registry Numbers for easy and accurate  
substance identification.

=> d his

(FILE 'HOME' ENTERED AT 14:58:08 ON 04 JAN 2002)

FILE 'REGISTRY' ENTERED AT 14:58:20 ON 04 JAN 2002

E BEHENYLTRIMETHYL  
E BEHENYLTRIMETHYLAMMONIUM  
L1 3 S E3  
L2 STRUCTURE UPLOADED

L3 3 S L2 SSS SAM  
L4 56 S L2 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:11:03 ON 04 JAN 2002

L5 374 S L1  
L6 37 S L4  
L7 0 S L5 AND L6  
L8 2377 S MODIFIED(W) STARCH  
L9 76 S AMPHOTERIC(W) STARCH  
L10 2445 S L8 OR L9  
L11 1 S L5 AND L10  
L12 126916 S STARCH  
L13 3 S L5 AND L12 NOT L11

FILE 'KOSMET' ENTERED AT 15:15:39 ON 04 JAN 2002

L14 0 S BEHENYLTRIMETHYL  
L15 0 S L1

FILE 'USPATFULL' ENTERED AT 15:17:06 ON 04 JAN 2002

=> s L1  
L16 60 L1

=> s L4  
L17 13 L4

=> s L16 and L17  
L18 0 L16 AND L17

=> file marpat

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST  | 4.63             | 183.08        |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| CA SUBSCRIBER PRICE                        | 0.00             | -1.86         |

FILE 'MARPAT' ENTERED AT 15:18:39 ON 04 JAN 2002  
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FILE CONTENT: 1988-PRESENT (VOL 104 ISS 15-VOL 136 ISS 01) (20011228/ED)

MOST RECENT CITATIONS FOR PATENTS FROM FIVE MAJOR ISSUING AGENCIES  
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US 200104936 06 DEC 2001  
DE 20110918 06 DEC 2001  
EP 1160248 05 DEC 2001  
JP 200132899 27 NOV 2001  
WO 200109255 06 DEC 2001

MARPAT structure search limits have been raised.  
Enter HELP SLIMIT for details.

=> s L1  
L19 0 BEHENYLTRIMETHYLAMMONIUM/BI  
0 BEHENYLTRIMETHYLAMMONIUM/BI

=> s L4

SAMPLE SEARCH INITIATED 15:18:52 FILE 'MARPAT'

SAMPLE SCREEN SEARCH COMPLETED - 2922 TO ITERATE

34.2% PROCESSED 1000 ITERATIONS  
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)  
SEARCH TIME: 00.00.11

16 ANSWERS

FULL FILE PROJECTIONS: ONLINE \*\*INCOMPLETE\*\*  
BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 55831 TO 61049

PROJECTED ANSWERS: 525 TO 1345

L20 16 SEA SSS SAM L2

=> d L20 1-16 ti

L20 ANSWER 1 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Quaternary amino amides in fabric finishing compositions

L20 ANSWER 2 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Preparation of quinolines as bactericides for Helicobacter pylori and as antiulcer agents

L20 ANSWER 3 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Cationic dye precursors containing a single benzene ring, and their use in oxidative dyeing of keratinic fibers

L20 ANSWER 4 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Combinatorial synthesis and screening of .alpha.-ketoamide-derivative cysteine protease inhibitors

L20 ANSWER 5 OF 16 MARPAT COPYRIGHT 2002 ACS

TI synthesis and antibiotic activity of stabilized carbapenems

L20 ANSWER 6 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Detergent compositions containing low concentration levels of gemini surfactants

L20 ANSWER 7 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Process for making solid composition comprising quaternary ester ammonium compounds and fatty acids

L20 ANSWER 8 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Solid particulate fabric softener composition containing biodegradable cationic ester fabric softener active and acidic pH modifier

L20 ANSWER 9 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Catalysts for cationic crosslinking, especially of functional siloxanes as release coatings

L20 ANSWER 10 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Biodegradable fabric softener compositions

L20 ANSWER 11 OF 16 MARPAT COPYRIGHT 2002 ACS

TI Foaming personal cleansing compositions



L20 ANSWER 12 OF 16 MARPAT COPYRIGHT 2002 ACS  
 TI Method for processing silver halide color photographic material

L20 ANSWER 13 OF 16 MARPAT COPYRIGHT 2002 ACS  
 TI Fabric softeners usable with detergents for laundering garments

L20 ANSWER 14 OF 16 MARPAT COPYRIGHT 2002 ACS  
 TI Color photographic material including magenta coupler, carbonamide compound, and aniline or amine compound

L20 ANSWER 15 OF 16 MARPAT COPYRIGHT 2002 ACS  
 TI Liquid compositions containing fabric softener and green colorant

L20 ANSWER 16 OF 16 MARPAT COPYRIGHT 2002 ACS  
 TI Preparation of 4-nitrophenyl-1,4-dihydropyridamides as cardiovascular agents

=> file caplus

|  |                  |               |
|--|------------------|---------------|
| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST                        | 6.83             | 189.91        |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | 0.00             | -1.86         |

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FILE COVERS 1907 - 4 Jan 2002 VOL 136 ISS 1  
 FILE LAST UPDATED: 2 Jan 2002 (20020102/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

This file supports REGISTRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

CAPLUS now provides online access to patents and literature covered in CA from 1907 to the present. Bibliographic information and abstracts were added in 2001 for over 3.8 million records from 1907-1966.

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The CA Lexicon is now available in the Controlled Term (/CT) field. Enter HELP LEXICON for full details.

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=> d his

(FILE 'HOME' ENTERED AT 14:58:08 ON 04 JAN 2002)

FILE 'REGISTRY' ENTERED AT 14:58:20 ON 04 JAN 2002

E BEHENYLTRIMETHYL

E BEHENYLTRIMETHYLAMMONIUM

L1 3 S E3

L2 STRUCTURE UPLOADED

L3 3 S L2 SSS SAM

L4 56 S L2 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:11:03 ON 04 JAN 2002

L5 374 S L1

L6 37 S L4

L7 0 S L5 AND L6

L8 2377 S MODIFIED (W) STARCH

L9 76 S AMPHOTERIC (W) STARCH

L10 2445 S L8 OR L9

L11 1 S L5 AND L10

L12 126916 S STARCH

L13 3 S L5 AND L12 NOT L11

FILE 'KOSMET' ENTERED AT 15:15:39 ON 04 JAN 2002

L14 0 S BEHENYLTRIMETHYL

L15 0 S L1

FILE 'USPATFULL' ENTERED AT 15:17:06 ON 04 JAN 2002

L16 60 S L1

L17 13 S L4

L18 0 S L16 AND L17

FILE 'MARPAT' ENTERED AT 15:18:39 ON 04 JAN 2002

L19 0 S L1

L20 16 S L4

FILE 'CAPLUS' ENTERED AT 15:20:20 ON 04 JAN 2002

=> s L4 and starch

37 L4

125759 STARCH

7342 STARCHES

126916 STARCH

(STARCH OR STARCHES)

L21 4 L4 AND STARCH

=> d L21 1-4 ti

L21 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS

TI Water-based adhesives containing thermally inhibited **starches**

L21 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS

TI Cosmetic compositions containing aminocarboxylate-modified **starch**

L21 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS  
TI **Starches** modified with amino-polycarboxylates

L21 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS  
TI Hydrogenated 1-(phenoxyalkyl)pyridine-3-carboxylates, their preparation,  
and their use as nootropic agents.

=> d L21 ibib

L21 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1996:580294 CAPLUS  
DOCUMENT NUMBER: 125:198990  
TITLE: Water-based adhesives containing thermally inhibited  
**starches**  
INVENTOR(S): Koubek, Timothy C.; Nesiewicz, Russell J.; Philbin,  
Michael T.; Wieczorek, Joseph, Jr.; Chiu, Chung-Wai;  
Schiermeyer, Eleanor; Thomas, David J.; Shah, Manish  
B.; Solarek, Daniel B.  
PATENT ASSIGNEE(S): National Starch and Chemical Investment Holding  
Corp.,  
USA  
SOURCE: PCT Int. Appl., 99 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

| PATENT NO.             | KIND   | DATE     | APPLICATION NO. | DATE     |
|------------------------|--|----------|-----------------|----------|
| WO 9623038             | A1   | 19960801 | WO 1996-US988   | 19960124 |
| W:                     | AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI |          |                 |          |
| RW:                    | KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN   |          |                 |          |
| CA 2210455             | AA   | 19960801 | CA 1996-2210455 | 19960124 |
| AU 9647671             | A1   | 19960814 | AU 1996-47671   | 19960124 |
| EP 805840              | A1   | 19971112 | EP 1996-903662  | 19960124 |
| R:                     | DE, GB, IT, NL   |          |                 |          |
| JP 10503803            | T2   | 19980407 | JP 1996-522997  | 19960124 |
| PRIORITY APPLN. INFO.: |  |          | US 1995-377544  | 19950124 |
|                        |  |          | US 1995-385259  | 19950218 |
|                        |  |          | WO 1996-US988   | 19960124 |

=> d L21 2-4 ibib

L21 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1996:117958 CAPLUS  
DOCUMENT NUMBER: 124:155680  
TITLE: Cosmetic compositions containing aminocarboxylate-  
modified **starch**  
INVENTOR(S): Sweger, Robert W.; Tsai, John J.; Pasapane, Joseph;  
Bernard, Karen A.  
PATENT ASSIGNEE(S): National Starch and Chemical Investment Holding  
Corp.,

SOURCE: USA  
 Eur. Pat. Appl., 16 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE     |
|------------------------|------|----------|-----------------|----------|
| EP 689829              | A2   | 19960103 | EP 1995-109537  | 19950620 |
| EP 689829              | A3   | 19960207 |                 |          |
| EP 689829              | B1   | 20000202 |                 |          |
| R: DE, FR, GB, IT      |      |          |                 |          |
| US 5482704             | A    | 19960109 | US 1994-267984  | 19940628 |
| CA 2152535             | AA   | 19951229 | CA 1995-2152535 | 19950623 |
| CA 2152535             | C    | 19990406 |                 |          |
| JP 08040822            | A2   | 19960213 | JP 1995-160883  | 19950627 |
| JP 2582237             | B2   | 19970219 |                 |          |
| PRIORITY APPLN. INFO.: |      |          | US 1994-267984  | 19940628 |

L21 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1995:851835 CAPLUS  
 DOCUMENT NUMBER: 123:260253  
 TITLE: **Starches** modified with amino-polycarboxylates  
 INVENTOR(S): Bernard, Karen A.; Tsai, John; Billmers, Robert L.; Sweger, Robert W.  
 PATENT ASSIGNEE(S): National Starch and Chemical Investment Holding Corp.,  
 SOURCE: USA  
 Eur. Pat. Appl., 13 pp.  
 CODEN: EPXXDW  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO.   | DATE       |
|------------------------|------|----------|-------------------|------------|
| EP 666272              | A1   | 19950809 | EP 1995-100270    | 19950110   |
| EP 666272              | B1   | 19971112 |                   |            |
| R: DE, FR, GB, IT, SE  |      |          |                   |            |
| US 5455340             | A    | 19951003 | US 1994-190824    | 19940202   |
| CA 2141826             | AA   | 19950803 | CA 1995-2141826   | 19950202   |
| CA 2141826             | C    | 19990316 |                   |            |
| JP 07278201            | A2   | 19951024 | JP 1995-16182     | 19950202   |
| JP 3222715             | B2   | 20011029 |                   |            |
| US 5500087             | A    | 19960319 | US 1995-447462    | 19950523   |
| PRIORITY APPLN. INFO.: |      |          | US 1994-190824    | A 19940202 |
| OTHER SOURCE(S):       |      |          | MARPAT 123:260253 |            |

L21 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 1988:186587 CAPLUS  
 DOCUMENT NUMBER: 108:186587  
 TITLE: Hydrogenated 1-(phenoxyalkyl)pyridine-3-carboxylates, their preparation, and their use as nootropic agents.  
 INVENTOR(S): Zust, Armin  
 PATENT ASSIGNEE(S): Ciba-Geigy A.-G., Switz.  
 SOURCE: Eur. Pat. Appl., 30 pp.

CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: German  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.  | KIND | DATE     | APPLICATION NO.   | DATE     |
|---|------|----------|-------------------|----------|
| EP 252876   | A1   | 19880113 | EP 1987-810349    | 19870622 |
| R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE |      |          |                   |          |
| FI 8702806  | A    | 19871227 | FI 1987-2806      | 19870624 |
| DK 8703256  | A    | 19871227 | DK 1987-3256      | 19870625 |
| JP 63008373   | A2   | 19880114 | JP 1987-156697    | 19870625 |
| IL 84528  | A1   | 19930315 | IL 1987-84528     | 19871119 |
| PRIORITY APPLN. INFO.:                                |      |          | CH 1986-2587      | 19860626 |
| OTHER SOURCE(S):                                      |      |          | MARPAT 108:186587 |          |

=> file registry

| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
|----------------------|------------------|---------------|
| FULL ESTIMATED COST  | 8.94             | 198.85        |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| CA SUBSCRIBER PRICE                        | 0.00             | -1.86         |

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STRUCTURE FILE UPDATES: 2 JAN 2002 HIGHEST RN 380300-95-8  
DICTIONARY FILE UPDATES: 2 JAN 2002 HIGHEST RN 380300-95-8

TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

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Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
for more information. See STNote 27, Searching Properties in the CAS  
Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=> e cetyltrimethylammonium

|     |        |                              |
|-----|--------|------------------------------|
| E1  | 86     | CETYLTRIMETHYL/BI            |
| E2  | 83     | CETYLTRIMETHYLAMMON/BI       |
| E3  | 83 --> | CETYLTRIMETHYLAMMONIUM/BI    |
| E4  | 2      | CETYLTRIMETHYLPHOSPHON/BI    |
| E5  | 2      | CETYLTRIMETHYLPHOSPHONIUM/BI |
| E6  | 4      | CETYLTRIOCTYL/BI             |
| E7  | 4      | CETYLTRIOCTYLAMMON/BI        |
| E8  | 4      | CETYLTRIOCTYLAMMONIUM/BI     |
| E9  | 1      | CETYLTRIPENT/BI              |
| E10 | 1      | CETYLTRIPENTYL/BI            |
| E11 | 1      | CETYLTRIPENTYLAMMON/BI       |
| E12 | 1      | CETYLTRIPENTYLAMMONIUM/BI    |

=> s e3

L22 83 CETYLTRIMETHYLAMMONIUM/BI

=> d L22 1

L22 ANSWER 1 OF 83. REGISTRY COPYRIGHT 2002 ACS

RN 362055-73-0 REGISTRY

CN 1-Hexadecanaminium, N,N,N-trimethyl-, salt with 4-ethenylbenzoic acid (1:1), polymer with N,N-dimethyl-N-[11-[(2-methyl-1-oxo-2-propenyl)oxy]undecyl]-1-dodecanaminium bromide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1-Dodecanaminium, N,N-dimethyl-N-[11-[(2-methyl-1-oxo-2-propenyl)oxy]undecyl]-, bromide, polymer with N,N,N-trimethyl-1-hexadecanaminium salt with 4-ethenylbenzoic acid (1:1) (9CI)

CN Benzoic acid, 4-ethenyl-, ion(1-), N,N,N-trimethyl-1-hexadecanaminium, polymer with

N,N-dimethyl-N-[11-[(2-methyl-1-oxo-2-propenyl)oxy]undecyl]-1-dodecanaminium bromide (9CI)

OTHER NAMES:

CN **Cetyltrimethylammonium 4-vinylbenzoate-dodecyl(11-(methacryloyloxy)undecyl)dimethylammonium bromide copolymer**

MF (C29 H58 N O2 . C19 H42 N . C9 H7 O2 . Br)x

CI PMS

PCT Polyacrylic, Polyother, Polystyrene

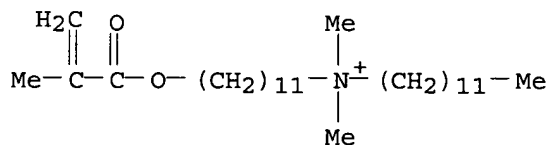
SR CA

LC STN Files: CA, CAPLUS

CM 1

CRN 150397-44-7

CMF C29 H58 N O2 . Br



CM 2

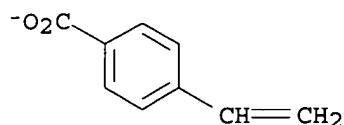
CRN 223691-67-6

CMF C19 H42 N . C9 H7 O2

CM 3

CRN 74056-33-0

CMF C9 H7 O2



CM 4

CRN 6899-10-1  
CMF C19 H42 N

Me<sub>3</sub><sup>+</sup>N-(CH<sub>2</sub>)<sub>15</sub>-Me

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> file caplus

|  |                  |               |
|--|------------------|---------------|
| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
|  | 6.22             | 205.07        |
| FULL ESTIMATED COST                        |                  |               |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | 0.00             | -1.86         |

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FILE COVERS 1907 - 4 Jan 2002 VOL 136 ISS 1  
FILE LAST UPDATED: 2 Jan 2002 (20020102/ED)

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=> d his

(FILE 'HOME' ENTERED AT 14:58:08 ON 04 JAN 2002)

FILE 'REGISTRY' ENTERED AT 14:58:20 ON 04 JAN 2002

E BEHENYLTRIMETHYL

E BEHENYLTRIMETHYLAMMONIUM

L1 3 S E3  
L2 STRUCTURE UPLOADED  
L3 3 S L2 SSS SAM  
L4 56 S L2 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:11:03 ON 04 JAN 2002

L5 374 S L1  
L6 37 S L4  
L7 0 S L5 AND L6  
L8 2377 S MODIFIED(W) STARCH  
L9 76 S AMPHOTERIC(W) STARCH  
L10 2445 S L8 OR L9  
L11 1 S L5 AND L10  
L12 126916 S STARCH  
L13 3 S L5 AND L12 NOT L11

FILE 'KOSMET' ENTERED AT 15:15:39 ON 04 JAN 2002

L14 0 S BEHENYLTRIMETHYL  
L15 0 S L1

FILE 'USPATFULL' ENTERED AT 15:17:06 ON 04 JAN 2002

L16 60 S L1  
L17 13 S L4  
L18 0 S L16 AND L17

FILE 'MARPAT' ENTERED AT 15:18:39 ON 04 JAN 2002

L19 0 S L1  
L20 16 S L4

FILE 'CAPLUS' ENTERED AT 15:20:20 ON 04 JAN 2002

L21 4 S L4 AND STARCH

FILE 'REGISTRY' ENTERED AT 15:24:30 ON 04 JAN 2002

E CETYLTRIMETHYLAMMONIUM

L22 83 S E3

FILE 'CAPLUS' ENTERED AT 15:25:38 ON 04 JAN 2002

=> s L22

L23 14214 L22

=> s L23 and L6

L24 0 L23 AND L6



```
=> s L4 and amphoteric
      37 L4
      12474 AMPHOTERIC
      94 AMPHOTERIC
      12502 AMPHOTERIC
      (AMPHOTERIC OR AMPHOTERIC)
L25      1 L4 AND AMPHOTERIC
```

```
=> d L25 1 ti
```

```
L25 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2002 ACS
TI Amphoteric imidazoline derivatives for hide treatment
```

```
=> file registry
COST IN U.S. DOLLARS          SINCE FILE      TOTAL
                               ENTRY      SESSION
FULL ESTIMATED COST          3.93      209.00

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)  SINCE FILE      TOTAL
                                               ENTRY      SESSION
CA SUBSCRIBER PRICE          0.00      -1.86
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```
STRUCTURE FILE UPDATES:      2 JAN 2002  HIGHEST RN 380300-95-8
DICTIONARY FILE UPDATES:     2 JAN 2002  HIGHEST RN 380300-95-8
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TSCA INFORMATION NOW CURRENT THROUGH July 7, 2001

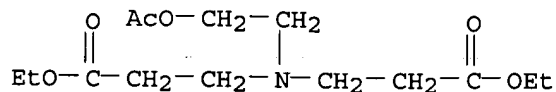
Please note that search-term pricing does apply when  
 conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Calculated physical property data is now available. See HELP PROPERTIES  
 for more information. See STN Note 27, Searching Properties in the CAS  
 Registry File, for complete details:  
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

```
=> d L4 2
```

```
L4 ANSWER 2 OF 56 REGISTRY COPYRIGHT 2002 ACS
RN 350684-83-2 REGISTRY
CN .beta.-Alanine, N-[2-(acetyloxy)ethyl]-N-(3-ethoxy-3-oxopropyl)-, ethyl
   ester (9CI) (CA INDEX NAME)
FS 3D CONCORD
MF C14 H25 N O6
SR CA
LC STN Files: CA, CAPLUS
```



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

1 REFERENCES IN FILE CA (1967 TO DATE)  
1 REFERENCES IN FILE CAPLUS (1967 TO DATE)

=> s L4 and starch  
2502 STARCH  
L26 1 L4 AND STARCH

=> d L26

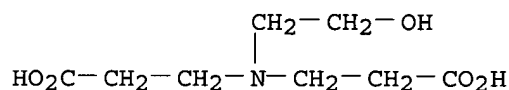
L26 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2002 ACS  
RN 169105-05-9 REGISTRY  
CN Starch, 2-[N,N-bis(2-carboxyethyl)amino]ethyl ether (9CI) (CA  
INDEX NAME)

OTHER NAMES:

CN 2-[N,N-Di(propionic acid)amino]ethyl starch ether  
MF C8 H15 N O5 . x Unspecified  
SR CA  
LC STN Files: CA, CAPLUS, TOXLIT, USPATFULL

CM 1

CRN 54685-83-5  
CMF C8 H15 N O5



CM 2

CRN 9005-25-8  
CMF Unspecified  
CCI MAN

\*\*\* STRUCTURE DIAGRAM IS NOT AVAILABLE \*\*\*

3 REFERENCES IN FILE CA (1967 TO DATE)  
3 REFERENCES IN FILE CAPLUS (1967 TO DATE)

|  |            |         |
|--|------------|---------|
| => file caplus                             |            |         |
| COST IN U.S. DOLLARS                       | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| FULL ESTIMATED COST                        | 7.80       | 216.80  |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | 0.00       | -1.86   |

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FILE COVERS 1907 - 4 Jan 2002 VOL 136 ISS 1  
FILE LAST UPDATED: 2 Jan 2002 (20020102/ED)

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=> s L26  
L27 3 L26

=> d L27 1-3 ibib,abs

L27 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2002 ACS  
ACCESSION NUMBER: 1996:580294 CAPLUS  
DOCUMENT NUMBER: 125:198990  
TITLE: Water-based adhesives containing thermally inhibited  
starches  
INVENTOR(S): Koubek, Timothy C.; Nesiewicz, Russell J.; Philbin,  
Michael T.; Wieczorek, Joseph, Jr.; Chiu, Chung-Wai;  
Schiermeyer, Eleanor; Thomas, David J.; Shah, Manish  
B.; Solarek, Daniel B.  
PATENT ASSIGNEE(S): National Starch and Chemical Investment Holding  
Corp.,  
USA  
SOURCE: PCT Int. Appl., 99 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 2  
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------|------|------|-----------------|------|
|------------|------|------|-----------------|------|

-----

WO 9623038            A1    19960801            WO 1996-US988    19960124

W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI

RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN

CA 2210455            AA    19960801            CA 1996-2210455    19960124

AU 9647671            A1    19960814            AU 1996-47671    19960124

EP 805840            A1    19971112            EP 1996-903662    19960124

R: DE, GB, IT, NL

JP 10503803           T2    19980407            JP 1996-522997    19960124

PRIORITY APPLN. INFO.:            US 1995-377544    19950124

                                      US 1995-385259    19950218

                                      WO 1996-US988    19960124

AB    Thermally inhibited starches and flours are used in conventional water-based adhesives such as corrugating, cigarette, and remoistenable adhesives. The starches or flours are inhibited by dehydrating the starch to anhyd. or substantially anhyd. and then heat-treating the starch or flour for a time and at a temp. sufficient to inhibit the starch and improve its viscosity stability. The starch or flour may be thermally or nonthermally dehydrated (e.g., by alc. extn. or freeze-drying). Preferably, the pH of the starch is adjusted to at least neutral prior to the dehydration.

L27 ANSWER 2 OF 3    CAPLUS    COPYRIGHT 2002 ACS

ACCESSION NUMBER:            1996:117958    CAPLUS

DOCUMENT NUMBER:            124:155680

TITLE:                        Cosmetic compositions containing aminocarboxylate-modified starch

INVENTOR(S):                Sweger, Robert W.; Tsai, John J.; Pasapane, Joseph; Bernard, Karen A.

PATENT ASSIGNEE(S):        National Starch and Chemical Investment Holding Corp.,

                                      USA

SOURCE:                      Eur. Pat. Appl., 16 pp.

                                      CODEN: EPXXDW

DOCUMENT TYPE:                Patent

LANGUAGE:                      English

FAMILY ACC. NUM. COUNT:    1

PATENT INFORMATION:

| PATENT NO.        | KIND | DATE     | APPLICATION NO. | DATE     |
|-------------------|------|----------|-----------------|----------|
| EP 689829         | A2   | 19960103 | EP 1995-109537  | 19950620 |
| EP 689829         | A3   | 19960207 |                 |          |
| EP 689829         | B1   | 20000202 |                 |          |
| R: DE, FR, GB, IT |      |          |                 |          |
| US 5482704        | A    | 19960109 | US 1994-267984  | 19940628 |
| CA 2152535        | AA   | 19951229 | CA 1995-2152535 | 19950623 |
| CA 2152535        | C    | 19990406 |                 |          |
| JP 08040822       | A2   | 19960213 | JP 1995-160883  | 19950627 |
| JP 2582237        | B2   | 19970219 |                 |          |

PRIORITY APPLN. INFO.:            US 1994-267984    19940628

AB    Cosmetic skin and hair-care compns. are provided contg. aminocarboxylate starch derivs. as thickeners or emulsion stabilizers. These compns. have good rheol. properties and have excellent aesthetic properties of feel and

appearance. Potato starch was treated with 2-chloroethylaminodipropionic acid at pH 11-11.5 and formulated into a lotion. Viscosity studies indicated that the modified starch was relatively stable over time and was actually superior to the Carbopol std., i.e. the starch sample maintained 65% of its viscosity at 45.degree. while the Carbopol sample maintained only 21%.

L27 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 1995:851835 CAPLUS  
DOCUMENT NUMBER: 123:260253  
TITLE: Starches modified with amino-polycarboxylates  
INVENTOR(S): Bernard, Karen A.; Tsai, John; Billmers, Robert L.; Sweger, Robert W.  
PATENT ASSIGNEE(S): National Starch and Chemical Investment Holding Corp.,  
USA  
SOURCE: Eur. Pat. Appl., 13 pp.  
CODEN: EPXXDW  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

| PATENT NO.             | KIND | DATE     | APPLICATION NO. | DATE       |
|------------------------|------|----------|-----------------|------------|
| EP 666272              | A1   | 19950809 | EP 1995-100270  | 19950110   |
| EP 666272              | B1   | 19971112 |                 |            |
| R: DE, FR, GB, IT, SE  |      |          |                 |            |
| US 5455340             | A    | 19951003 | US 1994-190824  | 19940202   |
| CA 2141826             | AA   | 19950803 | CA 1995-2141826 | 19950202   |
| CA 2141826             | C    | 19990316 |                 |            |
| JP 07278201            | A2   | 19951024 | JP 1995-16182   | 19950202   |
| JP 3222715             | B2   | 20011029 |                 |            |
| US 5500087             | A    | 19960319 | US 1995-447462  | 19950523   |
| PRIORITY APPLN. INFO.: |      |          | US 1994-190824  | A 19940202 |

OTHER SOURCE(S): MARPAT 123:260253

AB Amino-polycarboxylate starch ether derivs. are provided which bear O-substituting groups of (CH<sub>2</sub>)<sub>2</sub>-3NR<sub>1</sub>R<sub>2</sub> (R<sub>1</sub> = CHR'CHRCOOM with R = H, Me and R' = R, COOH; R<sub>2</sub> = R<sub>1</sub>, H, C<sub>1</sub>-18 alkyl; M = cations). These starch derivs. are particularly useful as retention and strength aids in papermaking. Converting a NaOH-activated starch with 2-chloroethylaminodipropionic acid gave a title deriv.

=> file stng

| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
|--|------------------|---------------|
| FULL ESTIMATED COST                        | 7.88             | 224.68        |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | -1.86            | -3.72         |

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Dec 14, 2001 (20011214/UP).

=> d his

(FILE 'HOME' ENTERED AT 14:58:08 ON 04 JAN 2002)

FILE 'REGISTRY' ENTERED AT 14:58:20 ON 04 JAN 2002

E BEHENYLTRIMETHYL  
E BEHENYLTRIMETHYLAMMONIUM

L1 3 S E3  
L2 STRUCTURE UPLOADED  
L3 3 S L2 SSS SAM  
L4 56 S L2 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:11:03 ON 04 JAN 2002

L5 374 S L1  
L6 37 S L4  
L7 0 S L5 AND L6  
L8 2377 S MODIFIED(W) STARCH  
L9 76 S AMPHOTERIC(W) STARCH  
L10 2445 S L8 OR L9  
L11 1 S L5 AND L10  
L12 126916 S STARCH  
L13 3 S L5 AND L12 NOT L11

FILE 'KOSMET' ENTERED AT 15:15:39 ON 04 JAN 2002

L14 0 S BEHENYLTRIMETHYL  
L15 0 S L1

FILE 'USPATFULL' ENTERED AT 15:17:06 ON 04 JAN 2002

L16 60 S L1  
L17 13 S L4  
L18 0 S L16 AND L17

FILE 'MARPAT' ENTERED AT 15:18:39 ON 04 JAN 2002

L19 0 S L1  
L20 16 S L4

FILE 'CAPLUS' ENTERED AT 15:20:20 ON 04 JAN 2002

L21 4 S L4 AND STARCH

FILE 'REGISTRY' ENTERED AT 15:24:30 ON 04 JAN 2002

E CETYLTRIMETHYLAMMONIUM

L22 83 S E3

FILE 'CAPLUS' ENTERED AT 15:25:38 ON 04 JAN 2002

L23 14214 S L22  
L24 0 S L23 AND L6  
L25 1 S L4 AND AMPHOTERIC

FILE 'REGISTRY' ENTERED AT 15:28:57 ON 04 JAN 2002

L26 1 S L4 AND STARCH

FILE 'CAPLUS' ENTERED AT 15:30:22 ON 04 JAN 2002

L27 3 S L26

FILE 'STNGUIDE' ENTERED AT 15:32:06 ON 04 JAN 2002

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:hold  
COST IN U.S. DOLLARS

FULL ESTIMATED COST

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 0.00       | 224.68  |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

| SINCE FILE | TOTAL   |
|------------|---------|
| ENTRY      | SESSION |
| 0.00       | -3.72   |

SESSION WILL BE HELD FOR 60 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 15:32:17 ON 04 JAN 2002

Trying 3106016892...Open

Welcome to STN International! Enter x:x

LOGINID:ssspta1621mxw

PASSWORD:

\* \* \* \* \* RECONNECTED TO STN INTERNATIONAL \* \* \* \* \*  
SESSION RESUMED IN FILE 'STNGUIDE' AT 15:36:40 ON 04 JAN 2002  
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| COST IN U.S. DOLLARS | SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST  | 0.00                | 224.68           |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|--|---------------------|------------------|
| CA SUBSCRIBER PRICE                        | 0.00                | -3.72            |

=> file caplus,uspatfull

| COST IN U.S. DOLLARS | SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|----------------------|---------------------|------------------|
| FULL ESTIMATED COST  | 0.00                | 224.68           |

| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE<br>ENTRY | TOTAL<br>SESSION |
|--|---------------------|------------------|
| CA SUBSCRIBER PRICE                        | 0.00                | -3.72            |

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FILE 'USPATFULL' ENTERED AT 15:36:55 ON 04 JAN 2002  
CA INDEXING COPYRIGHT (C) 2002 AMERICAN CHEMICAL SOCIETY (ACS)

=> s L5 or L16  
L28 434 L5 OR L16

=> s L28/ti  
FIELD CODES CANNOT BE CHANGED HERE  
You may have tried to apply a field code to a term that already has a  
field code. You can only add a field code to a term that has no field  
code appended to it.

=> s L28 and surfactant  
L29 253 L28 AND SURFACTANT

=> s L29 and cosmetic  
L30 101 L29 AND COSMETIC

=> d L30 1 kwic,abs

L30 ANSWER 1 OF 101 CAPLUS COPYRIGHT 2002 ACS  
TI **Cosmetic** powder compositions containing cationic  
**surfactant**-treated powder  
AB The invention relates to a **cosmetic** powder compn. having good  
skin attachment ability, uniformity, and use feel, wherein the powder  
contains cationic **surfactant**-treated powder, esp. titanium oxide  
and/or zinc oxide. A behenyltrimethyl ammonium chloride-treated talc was



prepd., and combined at 40 % with other ingredients to obtain a  
**cosmetic powder foundation.**

ST **cosmetic powder cationic surfactant surface treatment**

IT **Surfactants**  
(cationic; **cosmetic powder compns. contg. cationic  
surfactant-treated powder**)

IT Kaolin, biological studies  
Mica-group minerals, biological studies  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**cosmetic powder compns. contg. cationic surfactant  
-treated powder**)

IT **Cosmetics**  
(eye shadows; **cosmetic powder compns. contg. cationic  
surfactant-treated powder**)

IT **Cosmetics**  
(foundations; **cosmetic powder compns. contg. cationic  
surfactant-treated powder**)

IT **Cosmetics**  
(powders; **cosmetic powder compns. contg. cationic  
surfactant-treated powder**)

IT 107-64-2, Distearyltrimethylammonium chloride 112-03-8,  
Stearyltrimethylammonium chloride 471-34-1, Calcium carbonate,  
biological studies 546-93-0, Magnesium carbonate 1314-13-2, Zinc  
oxide, biological studies 1327-43-1, Aluminum magnesium silicate  
1335-30-4, Aluminum silicate 1343-88-0, Magnesium silicate  
1343-98-2D,  
Silicic acid, anhydrides 1344-95-2, Calcium silicate 10043-11-5,  
Boron  
nitride, biological studies 12174-53-7, Sericite 13463-67-7, Titanium  
oxide, biological studies 14807-96-6, Talc, biological studies  
17301-53-0, Behenyltrimethyl ammonium chloride 26597-36-4,  
Dibehenyltrimethyl ammonium chloride  
RL: BUU (Biological use, unclassified); BIOL (Biological study); USES  
(Uses)  
(**cosmetic powder compns. contg. cationic surfactant  
-treated powder**)

AB The invention relates to a **cosmetic powder compn.** having good  
skin attachment ability, uniformity, and use feel, wherein the powder  
contains cationic **surfactant-treated powder**, esp. titanium oxide  
and/or zinc oxide. A behenyltrimethyl ammonium chloride-treated talc was  
prepd., and combined at 40 % with other ingredients to obtain a  
**cosmetic powder foundation.**

=> s L1/ti

'TI' IS NOT A VALID CROSSOVER QUALIFIER FOR L1

'TI' IS NOT A VALID CROSSOVER QUALIFIER FOR L1

Answer sets created in a different file may be field qualified with a  
limited set of qualifiers. Enter HELP CROSSOVER at an arrow prompt  
(=>) for specific information.

=> help crossover

GENERAL HELP FOR 'CROSSOVER' IS NOT AVAILABLE

CAPLUS

USPATFULL

ENTER A FILE NAME OR (END):caplus

The term 'file crossover' refers to the use of an answer set L-number  
created by a search in one file as a search term or profile in

another file. There are four types of crossovers in CAplus: query crossover, accession number crossover, crossover from the Registry File, and crossover of extracted terms.

The query is searched in CAplus when you search the L-number answer set created in another file, except for CASREACT, MARPAT, MARPATprev, and Registry.

Accession numbers are crossed over when you search an L-number answer set from CASREACT, MARPAT or MARPATprev in CAplus or when you search an L-number answer set from CAplus in MARPAT or MARPATprev.

You may use the CAS Registry Numbers(R) that are answers from a search in the REGISTRY File as a search term or profile in the CAplus File, without looking at all the answers or entering the Registry Numbers individually. To do this, enter the L-number of the REGISTRY answer set in a SEARCH command in CAplus. You may use this L-number in any search where you might use a Registry Number, i.e., combined with other terms using the logical operators or the (L) operator. Registry Numbers crossed over from the REGISTRY File include all deleted (DR), replacing (RR), preferred (PR) and alternate (AR) numbers.

CAS Registry Numbers appended by D or DP are automatically searched whenever CAS Registry Numbers are crossed over. The suffix D indicates a generic or unspecified derivative, and DP indicates the preparation of generic derivatives. If you do not want to search CAS Registry Numbers for nonspecific derivatives, append the crossover L-number with /RN.

Examples (where L3 is an answer set from the REGISTRY File):

| Search term | Retrieves   |
|-------------|---|
| => S L3     | All CAS Registry numbers, including those appended with D or DP |
| => S L3/RN  | All CAS Registry Numbers, excluding those appended with D or DP |

Additionally, the REGISTRY File answer set may be qualified by a code for a CAS Role. Enter HELP ROLES at an arrow prompt (=>) in this file to obtain a list of role codes and their definitions.

Example of a search for Registry Numbers with the role code ANT for the role of "analyte" (where L3 is an answer set from the REGISTRY File):

=> S L3/ANT

There is a limit of 300,000 answers for a single crossover of CAS Registry Numbers. For information on how to transfer more than 300,000 CAS Registry Numbers from the REGISTRY File, enter HELP CROSSOVER at an arrow prompt in REGISTRY.

You may also crossover and search a set of terms extracted from an answer set.

To crossover records from CAplus to CAOLD, use SELECT or TRANSFER with the OREF field. The OREF (Original Reference Number) field

contains the Original Reference Number(s) for any record published in printed CA in 1907-1966. The format of OREF is the volume number of CA, colon, column number and fraction designation for the location of the entire bibliographic record and the abstract on the page of printed CA.

Enter HELP OREF for an example of a crossover from CAPLUS to CAOLD. For more information on crossover of extracted terms, enter HELP TRANSFER at an arrow prompt.

```
=> help roles
GENERAL HELP FOR 'ROLES' IS NOT AVAILABLE
CAPLUS
USPATFULL
ENTER A FILE NAME OR (END):caplus
```

CAS roles are CAS indexing terms consisting of codes that describe the new or novel information reported about a substance or a class of compounds. Specific roles have 3-letter codes. Super roles have 4-letter codes. Super roles are automatically generated from the specific roles, and are upposted for searching. Roles are available for all indexed documents from 1967 to the present.

To search a role for a specific substance, append the CAS Registry Number or a Registry File L-number answer set with a slash and the code for the role, e.g., 67-68-5/THU. To search more than one role, separate a list of roles by commas and no spaces, e.g., 67-68-5/THU,ADV. Only one role may be appended to an L-number answer set. Use the OR operator to apply multiple roles to an L-number, e.g., S L1/THU OR L1/ADV.

To search roles assigned to index headings for classes of compounds, follow the heading with a slash and the role or roles separated by commas, e.g., PHENOLS/POL,REM.

Roles are displayed in the RL (Role) field within the IT (Index Term) field. Roles are included in any display format that contains the IT or RL field. Enter SET ROLES OFF at an arrow prompt (=>) to suppress display of codes and text for roles. Enter SET ROLES CODES to display only codes. Enter SET ROLES TEXT to return to default display (codes and names). Enter HELP SET ROLES at an arrow prompt for more information.

Enter HELP THESAURUS and HELP RCODE at an arrow prompt in this file for information on using the role thesaurus to find role definitions and narrower and broader terms.

The following list contains CAS roles. Under each super role are listed the specific roles that generate the super role.

Note that effective December 17, 2001, CAS roles were modified. The changes are summarized below and are also noted in footnotes to the list of CAS roles.

Overview of CAS role changes (effective December 17, 2001)

1. The following 5 Biological Study Roles were eliminated and

replaced with more specific, newly added Biological Study roles or BSU (Biological Study, Unclassified):

BAC Biological Activity or Effector, except Adverse  
BOC Biological Occurrence  
BPR Biological Process  
MFM Metabolic Formation  
BSU Biological Study, Unclassified

2. The following new roles were added:

COS Cosmetic Use  
DGN Diagnostic Use  
DMA Drug Mechanism of Action  
NPO Natural Product Occurrence  
PAC Pharmacological Activity  
PKT Pharmacokinetics  
BCP Biochemical Process

RGT Reagent

CPN Combinatorial Preparation  
CRT Combinatorial Reactant  
CRG Combinatorial Reagent  
CST Combinatorial Study  
CUS Combinatorial Use

CPR Chemical Process  
EPR Engineering Process  
PYP Physical Process

3. The following new super roles were added:

RACT Reactant or Reagent  
CMBI Combinatorial Study

4. The name for NUU role was changed from Nonbiological Use, Unclassified to Other Use, Unclassified.

List of CAS Roles

ANST Analytical Study

ANT Analyte  
AMX Analytical Matrix  
ARG Analytical Reagent Use  
ARU Analytical Role, Unclassified

BIOL Biological Study

ADV Adverse Effect, Including Toxicity  
AGR Agricultural Use  
BAC Biological Activity or Effector, Except Adverse (1)  
BCP Biochemical Process (2)  
BMF Bioindustrial Manufacture  
BOC Biological Occurrence  
BPN Biosynthetic Preparation  
BPR Biological Process (1)  
BSU Biological Study, Unclassified

BUU Biological Use, Unclassified  
 COS Cosmetic Use (2)  
 DGN Diagnostic Use (2)  
 DMA Drug Mechanism of Action (2)  
 FFD Food or Feed Use  
 MFM Metabolic Formation  
 NPO Natural Product Occurrence (2)  
 PAC Pharmacological Activity (2)  
 PKT Pharmacokinetics (2)  
 THU Therapeutic Use  
  
 CMBI Combinatorial Study (2)  
  
 CPN Combinatorial Preparation (2)  
 CRT Combinatorial Reactant (2)  
 CRG Combinatorial Reagent (2)  
 CST Combinatorial Study (2)  
 CUS Combinatorial Use (2)  
  
 FORM Formation, Nonpreparative  
  
 FMU Formation, Unclassified  
 GFM Geological or Astronomical Formation  
 MFM Metabolic Formation (1)  
  
 OCCU Occurrence  
  
 BOC Biological Occurrence (1)  
 GOC Geological or Astronomical Occurrence  
 NPO Natural Product Occurrence (2)  
 OCU Occurrence, Unclassified  
 POL Pollutant  
  
 PREP Preparation  
  
 BMF Bioindustrial Manufacture  
 BPN Biosynthetic Preparation  
 BYP Byproduct  
 CPN Combinatorial Preparation (2)  
 IMF Industrial Manufacture  
 PNU Preparation, Unclassified  
 PUR Purification or Recovery  
 SPN Synthetic Preparation  
  
 PROC Process  
  
 BCP Biochemical Process (2)  
 BPR Biological Process (1)  
 GPR Geological or Astronomical Process  
 PEP Physical, Engineering, or Chemical Process  
   CPS Chemical Process (2)  
   EPR Engineering Process (2)  
   PYP Physical Process (2)  
 REM Removal or Disposal  
  
 RACT Reactant or Reagent (2,3)  
  
 RCT Reactant (3)

CRT Combinatorial Reactant (2)  
RGT Reagent (2)  
CRG Combinatorial Reagent (2)

USES Uses

AGR Agricultural Use  
ARG Analytical Reagent Use  
BUU Biological Use, Unclassified  
CAT Catalyst Use  
COS Cosmetic Use (2)  
CUS Combinatorial Use (2)  
DEV Device Component Use  
DGN Diagnostic Use (2)  
FFD Food or Feed Use  
MOA Modifier or Additive Use  
NUU Other Use, Unclassified (4)  
POF Polymer in Formulation  
TEM Technical or Engineered Material Use  
THU Therapeutic Use

Specific roles that are not upposted to any super roles:

MSC Miscellaneous  
PRP Properties

- (1) Used from CA Vol. 66 (1967) to Vol. 135 (2001)
- (2) Used starting with CA Vol. 136 (2002)
- (3) Searching the RCT (Reactant) role retrieves references from CA Vol. 66 (1967) to the present. Searching the RACT (Reactant or Reagent) super role retrieves references with the CRT, CRG, RGT, or RCT references starting with CA Vol. 136 (2002).
- (4) Starting with CA Vol. 136 (2002), the searchable text for the NUU role changed from NONBIOLOGICAL USE, UNCLASSIFIED/RL to OTHER USE, UNCLASSIFIED/RL. Search the code NUU/RL to retrieve records from CA Vol. 66 (1967) to the present.

=> s L28/cos

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You may have tried to apply a field code to a term that already has a field code. You can only add a field code to a term that has no field code appended to it.

=> file caplus

|                      |            |         |
|----------------------|------------|---------|
| COST IN U.S. DOLLARS | SINCE FILE | TOTAL   |
|                      | ENTRY      | SESSION |
| FULL ESTIMATED COST  | 13.71      | 238.39  |

|  |            |         |
|--|------------|---------|
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE | TOTAL   |
|  | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE                        | -0.62      | -4.34   |

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FILE LAST UPDATED: 2 Jan 2002 (20020102/ED)

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=> s L5/cos

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=> file caplus

|  |                  |               |
|--|------------------|---------------|
| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST                        | 6.05             | 244.44        |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | 0.00             | -4.34         |

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=> s L5/uses

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=> s L1/uses

```
          374 L1
          4416203 USES/RL
L31       238 L1/USES
          (L1 (L) USES/RL)
```

=> s L1/cos

```
          374 L1
          137 COS/RL
L32       2 L1/COS
          (L1 (L) COS/RL)
```

=> d L32 1-2 ibib,abs

L32 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2001:903271 CAPLUS

TITLE: Aerosol preparations for treatment of the hair

INVENTOR(S): Grit, Mustafa

PATENT ASSIGNEE(S): Goldwell G.m.b.H., Germany

SOURCE: Ger. Offen., 8 pp.

CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:



| PATENT NO.  | KIND | DATE     | APPLICATION NO.  | DATE     |
|-------------|------|----------|------------------|----------|
| DE 10015149 | A1   | 20011213 | DE 2000-10015149 | 20000327 |

AB An aerosol spray-producing device is disclosed which employs carbon dioxide as the sole propellant. The prepn. contains water and at least one quaternary ammonium compd. and/or amine compd., which contains at least one C8-C22-alkylgroup and is acid formulated. It may be a solid formulation, preferably a powder or a tablet, which contains at least one alkali or alk. earth carbonate and/or hydrogencarbonate in such a quantity that it develops sufficient carbon dioxide propellant in the compn. after pressurized locking of the container to discharge the tank contents. Thus, a leave-on hair prepn. comprises (by wt.) esterquat (Tetranyl CO40) 1.0, paraffin oil 1.0, triglyceride 1.0, benzyloxyethanol 2.5, behentrimonium chloride 1.0, perfume 0.4, behenic acid 3.0, cetylstearyl alc. 5.0, Cetareth-20 3.0, and water q.s. to 100%.

L32 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2002 ACS  
 ACCESSION NUMBER: 2001:891558 CAPLUS  
 TITLE: Hair-conditioning preparations containing hydrophilic oils  
 INVENTOR(S): Omori, Takashi; Miyahara, Reiji; Kanokogi, Hiroyuki; Nanba, Tomiyuki  
 PATENT ASSIGNEE(S): Shiseido Co., Ltd., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 21 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

| PATENT NO.    | KIND | DATE     | APPLICATION NO. | DATE     |
|---------------|------|----------|-----------------|----------|
| JP 2001342116 | A2   | 20011211 | JP 2001-85691   | 20010323 |

PRIORITY APPLN. INFO.: JP 2000-86241 A 20000327  
 AB The hair prepn. contain liq. oils which show soly. in H2O of 1-15 wt.% at 25.degree. and soly. in glyceryl tri(2-ethylhexanoate) of .gtoreq.5 wt.% at 25.degree.. The prepn. may also contain quaternary ammonium salts or amidoamines. A hair prepn. contg. stearyltrimethylammonium chloride 1.0, cetostearyl alc. 2.2, polyoxyethylene glycerin caprate 0.001, propylene glycol 5.0, additives, and H2O to 100 wt.% was not sticky and showed hair-moisturizing, -smoothing, and -softening effects.

|  |                  |               |
|--|------------------|---------------|
| => file stng                               |                  |               |
| COST IN U.S. DOLLARS                       | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST                        | 8.51             | 252.95        |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE                        | -1.24            | -5.58         |

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FILE CONTAINS CURRENT INFORMATION.  
LAST RELOADED: Dec 14, 2001 (20011214/UP).

=> d is  
YOU HAVE REQUESTED DATA FROM FILE 'CAPLUS' - CONTINUE? (Y)/N:n

=> d his

(FILE 'HOME' ENTERED AT 14:58:08 ON 04 JAN 2002)

FILE 'REGISTRY' ENTERED AT 14:58:20 ON 04 JAN 2002

E BEHENYLTRIMETHYL  
E BEHENYLTRIMETHYLAMMONIUM

L1 3 S E3  
L2 STRUCTURE UPLOADED  
L3 3 S L2 SSS SAM  
L4 56 S L2 SSS FULL

FILE 'CAPLUS' ENTERED AT 15:11:03 ON 04 JAN 2002

L5 374 S L1  
L6 37 S L4  
L7 0 S L5 AND L6  
L8 2377 S MODIFIED(W) STARCH  
L9 76 S AMPHOTERIC(W) STARCH  
L10 2445 S L8 OR L9  
L11 1 S L5 AND L10  
L12 126916 S STARCH  
L13 3 S L5 AND L12 NOT L11

FILE 'KOSMET' ENTERED AT 15:15:39 ON 04 JAN 2002

L14 0 S BEHENYLTRIMETHYL  
L15 0 S L1

FILE 'USPATFULL' ENTERED AT 15:17:06 ON 04 JAN 2002

L16 60 S L1  
L17 13 S L4  
L18 0 S L16 AND L17

FILE 'MARPAT' ENTERED AT 15:18:39 ON 04 JAN 2002

L19 0 S L1  
L20 16 S L4

FILE 'CAPLUS' ENTERED AT 15:20:20 ON 04 JAN 2002

L21 4 S L4 AND STARCH

FILE 'REGISTRY' ENTERED AT 15:24:30 ON 04 JAN 2002

E CETYLTRIMETHYLAMMONIUM  
L22 83 S E3

FILE 'CAPLUS' ENTERED AT 15:25:38 ON 04 JAN 2002

L23 14214 S L22  
L24 0 S L23 AND L6  
L25 1 S L4 AND AMPHOTERIC

FILE 'REGISTRY' ENTERED AT 15:28:57 ON 04 JAN 2002

L26 1 S L4 AND STARCH

FILE 'CAPLUS' ENTERED AT 15:30:22 ON 04 JAN 2002

L27 3 S L26

FILE 'STNGUIDE' ENTERED AT 15:32:06 ON 04 JAN 2002

FILE 'CAPLUS, USPATFULL' ENTERED AT 15:36:55 ON 04 JAN 2002

L28 434 S L5 OR L16  
L29 253 S L28 AND SURFACTANT  
L30 101 S L29 AND COSMETIC

FILE 'CAPLUS' ENTERED AT 15:45:44 ON 04 JAN 2002

FILE 'CAPLUS' ENTERED AT 15:56:14 ON 04 JAN 2002  
L31 238 S L1/USES  
L32 2 S L1/COS

FILE 'STNGUIDE' ENTERED AT 15:57:19 ON 04 JAN 2002

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:hold

COST IN U.S. DOLLARS

|                     | SINCE FILE | TOTAL   |
|---------------------|------------|---------|
|                     | ENTRY      | SESSION |
| FULL ESTIMATED COST | 0.00       | 252.95  |

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

|                     | SINCE FILE | TOTAL   |
|---------------------|------------|---------|
|                     | ENTRY      | SESSION |
| CA SUBSCRIBER PRICE | 0.00       | -5.58   |

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STN INTERNATIONAL SESSION SUSPENDED AT 15:57:40 ON 04 JAN 2002